Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A motor driven vehicle comprising:

an electric motor that drives wheels through a power source; and

an electric motor control unit that drives the electric motor;

wherein when a voltage of the power source is a predetermined value or greater, the electric motor control unit controls the electric motor such that rotational speed-torque characteristics that the electric motor has when the voltage of the power source is at the predetermined value are maintained, and.

wherein the electric motor control unit is provided with at least one of a map of the voltage of the power source, a rotational speed and a torque component current of the electric motor, and a map of the voltage of the power source, wherein the rotational speed and a magnetic flux component current of the electric motor is controlled by performing varying at least one of the torque component current and the magnetic flux component current by referring to the map.

2. (Canceled)

3. (Original) The motor driven vehicle of claim 1, wherein the control by the electric motor control unit is performed by mechanically varying the magnetic flux of the electric motor.

4. (Currently amended) The motor driven vehicle of claim ~~2~~ 1, wherein the power source is a battery.

5. (Original) A method of sampling map data of a motor driven vehicle comprising:

setting a reference value for a voltage of a DC power source connected to an electric motor for driving a motor driven vehicle;

sampling data of rotational speed-torque characteristics, a rotational speed-torque current command value map and a rotational speed-field current command

value map when the voltage of the DC power source is at a reference value, while a torque current command value and a field current command value of the electric motor are adjusted such that desired rotational speed-torque characteristics are obtained with a current from the DC power source not exceeding a predetermined current value;

setting a value larger than the reference value for the voltage of the DC power source; and

sampling data of the rotational speed-torque current command map and the rotational speed-field current command map when the voltage of the DC power source is at the larger value, while the torque current command value and the field current command value are adjusted such that the rotational speed-torque characteristics obtained at the setting a reference value step are obtained with the current from the DC power source not exceeding the predetermined current value.

6. (Currently amended) The motor driven vehicle of claim ~~2~~ 1, further comprising a means for detecting a temperature of the battery.

7. (Original) The motor driven vehicle of claim 6, wherein the electric motor control unit is adapted to vary the magnetic flux component current of the electric motor using the temperature detected by the means for detecting a temperature of the battery.

8. (Original) The motor driven vehicle of claim 4, further comprising an inverter that converts a DC voltage from the battery.

9. (Previously presented) The motor driven vehicle of claim 1, further comprising a current sensor that detect current values flowing in U-phase and V-phase wires.

10. (Original) The motor driven vehicle of claim 1, further comprising a pulse wave modulation section that generates a pulse wave modulation signal.

11. (Original) The motor driven vehicle of claim 1, further comprising calculating section that calculates a torque current command value.

12. (Currently amended) A motor driven vehicle comprising:

means for supplying power;

an electric motor that drives wheels through the means for supplying power; and

an electric motor control unit that drives the electric motor;

wherein when a voltage of the means for supplying power is a predetermined value or greater, the electric motor control unit controls the electric motor such that rotational speed-torque characteristics that the electric motor has when the voltage of the means for supplying power is at the predetermined value are maintained, and

wherein the electric motor control unit is provided with at least one of a map of the voltage of the means for supplying power, a rotational speed and a torque component current of the electric motor, and a map of the voltage of the means for supplying power, wherein the rotational speed and a magnetic flux component current of the electric motor is controlled by performing varying at least one of the torque component current and the magnetic flux component current by referring to the map.

13. (Canceled)

14. (Original) The motor driven vehicle of claim 12, wherein the control by the electric motor control unit is performed by mechanically varying the magnetic flux of the electric motor.

15. (Currently amended) The motor driven vehicle of claim ~~13~~ 12, wherein the means for supplying power is a battery.

16. (Currently amended) The motor driven vehicle of claim ~~13~~ 12, further comprising a means for detecting a temperature of the means for supplying power.

17. (Original) The motor driven vehicle of claim 16, wherein the electric motor control unit is adapted to vary the magnetic flux component current of the electric motor using the temperature detected by the means for detecting a temperature of the means for supplying power.

18. (Original) The motor driven vehicle of claim 15, further comprising an inverter that converts a DC voltage from the battery.

19. (Previously presented) The motor driven vehicle of claim 12, further comprising a current sensor that detects current values flowing in U-phase and V-phase wires.

20. (Original) The motor driven vehicle of claim 12, further comprising a pulse wave modulation section that generates a pulse wave modulation signal.